Atty Dkt No. HESL 0101 PUSA

S/N: 10/553,132

Reply to Office Action of August 15, 2006

**Amendments to the Claims:** 

1. (Currently Amended) A An optical device such as an optical isolator,

attenuator, circulator or switch including a first combination of birefringent prisms wedges

with parallel optic axes eapable of for dividing an optical input beam into polarized beams and

combining polarized beams into an output beam and , a second combination of birefringent

wedges with parallel optic axes for combining polarized beams into an output beams beam, and

a polarization changer disposed between said first combination of birefringent wedges and said

second combination of birefringent wedges.

2. (Canceled).

3. (Canceled).

4. (Canceled).

5. (Canceled)

6. (Currently Amended) A An optical device of claim 3 1, further comprising

a second combination of birefringent prisms with parallel optic axes for combining parallel

polarized beams into an output beam, a polarization changer disposed between said first

combination of birefringent prisms and said second combination of birefringent prisms, and

a third combination of birefringent prisms wedges with parallel optic axes disposed between

said polarization changer and said second combination of birefringent prisms wedges.

7. (Currently Amended) An optical device as described in of claim 1, wherein

prisms wedges of at least one combination of birefringent prisms wedges are arranged about

at least one reflector or refractor.

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8. (Currently Amended) An optical device as described in of claim 1, wherein prisms wedges of at least one combination of birefringent prisms wedges are arranged about a polarization changer.

9. (Currently Amended) An optical isolator as described in device of claim [[5]] 1, wherein said device is an optical isolator and at least one polarization changer of said device is a nonreciprocal polarization changer.

10. (Currently Amended) An optical attenuator as described in device of claim [[5]] 1, wherein said device is an optical attenuator and at least one polarization changer of said device is a reciprocal polarization changer.

11. (Currently Amended) An optical circulator as described in device of claim [[5]] 1, wherein said device is an optical circulator and at least one polarization changer of said device is a nonreciprocal polarization changer.

12. (Currently Amended) An optical switch as described in device of claim [[5]] 1, wherein said device is an optical switch and at least one polarization changer of said device is a reciprocal polarization changer.